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JUN 25 2004
PATENT AND TRADEMARK OFFICE

TRANSMITTAL FORM

Application Serial Number	09/920,993
Filing Date	August 2, 2001
First Named Inventor	van der Greef
Group Art Unit	1723
Examiner Name	Therkorn, Ernest G.
Attorney Docket No.	BYG-002
Patent No.	6,743,364 B2
Issue Date	June 1, 2004

Certificate JUN 30 2004 of Correction

ENCLOSURES *(check all that apply)*

- ☐ Fee Transmittal Form
 - ☐ Check Attached
 - ☐ Copy of Fee Transmittal Form
- ☐ Amendment/Response
 - ☐ Preliminary
 - ☐ After Final
 - ☐ Affidavits/declaration(s)
 - ☐ Letter to Official Draftsperson including Drawings [Total Sheets _____]
- ☐ Petition for Extension of Time
- ☐ Information Disclosure Statement
 - ☐ Form PTO-1449
 - ☐ Copies of IDS Citations
- ☐ Certified Copy of Priority Document(s)
- ☐ Sequence Listing submission
 - ☐ Paper Copy/CD
 - ☐ Computer Readable Copy
 - ☐ Statement verifying identity of above
- ☐ Copy of Notice to File Missing Parts of Application
- ☐ Formal Drawing(s)
- ☐ Request For Continued Examination (RCE) Transmittal
- ☐ Power of Attorney (Revocation of Prior Powers)
- ☐ Terminal Disclaimer
- ☐ Executed Declaration and Power of Attorney for Utility or Design Patent Application
- ☐ Small Entity Statement
- ☐ CD(s) for large table or computer program
- ☐ Amendment After Allowance
- ☒ Request for Certificate of Correction
 - ☒ Certificate of Correction (in duplicate)
- ☐ Notice of Appeal to Board of Patent Appeals and Interferences
- ☐ Appeal Brief (in triplicate)
- ☐ Status Inquiry
- ☒ Return Receipt Postcard
- ☒ Certificate of First Class Mailing under 37 C.F.R. 1.8
- ☐ Certificate of Facsimile Transmission under 37 C.F.R. 1.8
- ☒ Additional Enclosure(s) *(please identify below)*

 Copies of
 - ☒ Amendment and Request to Correct Inventive Entity
 - ☒ Notice of Allowability
 - ☒ Declaration and Power of Attorney for Utility or Design Patent Application
 - ☒ Page 28 of U.S.S.N. 09/920,993, as filed

CORRESPONDENCE ADDRESS

Direct all correspondence to:

Patent Administrator
Testa, Hurwitz & Thibeault, LLP
High Street Tower
125 High Street
Boston, MA 02110
Tel. No.: (617) 248-7000
Fax No.: (617) 248-7100

SIGNATURE BLOCK

Respectfully submitted,

Date: June 23, 2004
Reg. No. 45,508
Tel. No.: (617) 248-7226
Fax No.: (617) 248-7100

Daniel A. Wilson
Atty/Agent for Applicant(s)
Testa, Hurwitz & Thibeault, LLP
High Street Tower
125 High Street
Boston, MA 02110

3080650

1 JUL 2004



PATENT
Atty. Docket No. BYG-002
(7847/4)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

INVENTORS: van der Greef *et al.*

PAT. NUMBER: US 6,743,364 B2

ISSUED: June 1, 2004

TITLE: Method and System for Identifying and Quantifying Chemical Components of a Mixture

Certificate of Correction Branch
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

REQUEST FOR CERTIFICATE OF CORRECTION

Sir:

The Assignee of record in the above-identified patent, Nederlandse Organisatie voor Toegepast-Natuurwetenschappelijk Onderzoek TNO (by virtue of an assignment filed for recordation on January 20, 2004, copy enclosed), hereby requests that a Certificate of Correction be issued for U.S. Patent No. 6,743,364 B2 under 35 U.S.C. § 254 and 37 C.F.R. § 1.322. The Assignee believes that these errors warrant issuance of a Certificate of Correction. Accordingly, the Assignee encloses a PTO Form 1050 (in duplicate) to correct the errors in the above-identified patent. Assignee believes that no fees are required for this submission; however, the Director is authorized to charge deposit account number 20-0531 for any fees that may be due.

Assignee requests correction of the inventive entity and correction of a typographical error in issued claim 2. Assignee respectfully submits that this error was introduced by the Patent and Trademark Office.

With regard to inventorship (cover page), Assignee requests that "(75) Inventor: Jan van der Greef, Driebergen-Rijsenburg (NL)" be amended to read --(75) Inventors: Jan van der

Greef, Driebergen-Rijsenburg (NL); Jacibus Thomas Wilhelmus Elisabeth Vogels, Utrecht (NL); Florian Wulfert, Driebergen-Rijsenburg (NL); Albert Tas, Lienden (NL)--. This inventive entity is the one provided in the Amendment and Request to Correct Inventive Entity and the Declaration and Power of Attorney, both filed on January 13, 2004, copies of which are enclosed. The Request and amended inventive entity were approved by the Patent Office as indicated in the enclosed copy of the Notice of Allowability, dated February 27, 2004.

With regard to issued claim 2 (Col. 14, lines 7-10), Assignee requests that "i1=□" below the summation symbol be amended to read --i=1-- as provided in claim 2 on page 28 of the application as filed (copy enclosed).

In view of the above-presented information, the Assignee respectfully submits that the errors in U.S. Patent No. 6,743,364 B2 are correctable pursuant to 35 U.S.C. § 254 and 37 C.F.R. § 1.322. Accordingly, the Assignee respectfully requests that the Commissioner issue a Certificate of Correction for U.S. Patent No. 6,743,364 B2 reflecting the corrections as they appear on the enclosed PTO Form 1050.

Respectfully submitted,

Dated: June 23, 2004

Testa, Hurwitz & Thibeault, LLP
High Street Tower
125 High Street
Boston, MA 02110
Tel.: 617-248-7226
Fax.: 617-248-7100

Daniel A. Wilson
Registration No. 45,508
Attorney for Assignee

JUN 25 2004
PATENT & TRADEMARK OFFICE

PATENT
Attorney Docket No. BYG-002

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

INVENTORS(S):	van der Greef *et al.*
PATENT NO.:	6,743,364 B2
ISSUED:	June 1, 2004
SERIAL NO:	09/920,993
FILING DATE:	August 2, 2001
TITLE:	Method and System for Identifying and Quantifying Chemical Components of a Mixture

CERTIFICATE OF FIRST CLASS MAILING UNDER 37 C.F.R. 1.8

I hereby certify that this correspondence, and any document(s) referred to as enclosed herein, is/are being deposited with the United States Postal Service as first class mail, postage prepaid, in an envelope addressed to the Certificate of Correction Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on this 23 th day of June, 2004.

Monika A Pychynska
Monika A. Pychynska

Certificate of Correction Branch
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Submitted herewith are the following: Transmittal Form (1 page); Request for Certificate of Correction (2 pages); Certificate of Correction (1 page, in duplicate); Copy of Amendment and Request to Correct Inventive Entity (3 pages); Copy of Notice of Allowability (2 pages); Copy of Declaration and Power of Attorney for Utility or Design Patent Application (4 pages); Copy of page 28 of U.S.S.N. 09/920,993, as filed (1 page); Certificate of First Class Mailing (1 page); and Return Receipt Postcard.

3080663

1 JUL 2004

UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF CORRECTION

PATENT NO. : 6,743,364 B2
DATED : June 1, 2004
INVENTOR(S) : van der Greef *et al.*

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

On the cover page, in field (75), replace "Inventor: Jan van der Greef, Driebergen-Rijsenburg (NL)" with –Inventors: Jan van der Greef, Driebergen-Rijsenburg (NL); Jacibus Thomas Wilhelmus Elisabeth Vogels, Utrecht (NL); Florian Wulfert, Driebergen-Rijsenburg (NL); Albert Tas, Lienden (NL)--.

In col. 14, lines 7-10, replace "i1=□" with -- i =1--.

MAILING ADDRESS OF SENDER: Patent Administrator
Testa Hurwitz & Thibeault, LLP
High Street Tower
125 High Street
Boston, MA 02110
(617) 248-7000

PATENT NO.: 6,743,364 B2

1 JUL 2004

Express Mail Mailing Label No. EL988706104US

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PATENT
Atty. Docket No. BYG-002

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT(S):	van der Greef		
SERIAL NUMBER:	09/920,993	GROUP NUMBER:	1723
FILING DATE:	August 2, 2001	EXAMINER:	E. G. Therkorn
TITLE:	Method and System for Identifying and Quantifying Chemical Components of a Mixture		

Mail Stop RCE
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

AMENDMENT AND REQUEST TO CORRECT INVENTIVE ENTITY UNDER 37 C.F.R. § 1.48(a)

Sir:

1. **This is an amendment and request to:**

☒ correct under 37 C.F.R. § 1.48(a) the inventive entity set forth in error in a previously executed oath or declaration under 37 C.F.R. § 1.63.

and/or

☐ delete inventor(s) under 37 C.F.R. § 1.48(b) for subject matter no longer claimed.

and/or

☐ add inventor(s) for subject matter disclosed in the application but previously unclaimed under 37 C.F.R. § 1.48(c).

2. **Applicants request that, in view of statements herein and/or attachments provided herewith, the below-named inventors be added to the inventive entity for this application as filed on August 2, 2001.**

(please check and complete all applicable items)

☒ The three persons to be added as an inventors of this application are:

Jacibus Thomas Wilhelmus Elisabeth Vogels, Florian Wulfert, and Albert Tas

☐ The inventors to be deleted from this application are:

3. Application in Interference

☐ This application is involved in an interference. In accord with 37 C.F.R. § 1.48(b), this Amendment and Request is accompanied by a motion under 37 C.F.R. § 1.634.

4. Fee Payment (37 C.F.R. §1.17(i))

The fee required for consideration of this petition is paid as follows (also see Fee Transmittal):

☒ Enclosed is a check in the amount of $900.00, $130.00 of which is to cover the processing fee under 37 C.F.R. §1.48(a) as set forth in 37 C.F.R §1.17(i).

☒ Charge Account 20-0531 for any fee deficiency.

☐ Charge Account 20-0531 the sum of $130.00.

5. Amendment of Inventive Entity

Please add Jacibus Thomas Wilhelmus Elisabeth Vogels, Florian Wulfert, and Albert Tas to the inventive entity.

Accordingly, the amended inventive entity is Jan van der Greef, Jacibus Thomas Wilhelmus Elisabeth Vogels, Florian Wulfert, and Albert Tas.

6. Attachments:

(1) A statement from Jacibus Thomas Wilhelmus Elisabeth Vogels that the error in inventorship occurred without deceptive intent on his part, as required by 37 CFR §1.48(a)(2);

(2) A statement from Florian Wulfert that the error in inventorship occurred without deceptive intent on his part, as required by 37 CFR §1.48(a)(2);

(3) A statement from Albert Tas that the error in inventorship occurred without deceptive intent on his part, as required by 37 CFR §1.48(a)(2); and

(4) A declaration by Jan van der Greef, Jacibus Thomas Wilhelmus Elisabeth Vogels, Florian Wulfert, and Albert Tas, as required by 37 CFR §1.48(a)(3).

If, for any reason, this Amendment is found not to comply with the requirements of 37 C.F.R. §1.48(a), or is otherwise found improper, it is requested that the undersigned attorney be contacted by telephone.

Respectfully Submitted,

Date: January 13, 2004
Reg. No. 41,640

Michael H. Brodowski
Attorney for Applicants
Testa, Hurwitz, & Thibeault, LLP
High Street Tower
125 High Street
Boston, Massachusetts 02110

Tel: (617) 248-7012
Fax: (617) 248-7100

2604645

COPY

JUN 25 2004 PATENT & TRADEMARK OFFICE

Notice of Allowability	Application No. 09/920,993	Applicant(s) GREEF, JAN VAN DER
	Examiner Ernest G. Therkorn	Art Unit 1723

-- *The MAILING DATE of this communication appears on the cover sheet with the correspondence address*--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *January 13, 2004*.

2. ☒ The allowed claim(s) is/are *1-11*.

3. ☒ The drawings filed on *04 January 2002* are accepted by the Examiner.

4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

 * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

 Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____.
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

Ernest G. Therkorn
Primary Examiner
Art Unit: 1723

1 JUL 2004

The request to correct the inventive entity under 37 C.F.R. 1.48(a) has been approved.

Any inquiry concerning this communication should be directed to E. Therkorn at telephone number (571) 272-1149. The official fax number is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



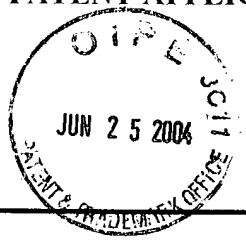
Ernest G. Therkorn
Primary Examiner
Art Unit 1723

EGT
February 27, 2004

COPY

Express Mail Mailing Label No. EL988706104US

DECLARATION AND POWER OF ATTORNEY FOR UTILITY OR DESIGN PATENT APPLICATION		
	Attorney Docket No.	BYG-002
	First Named Inventor	van der Greef
	COMPLETE IF KNOWN	
	Application Serial Number	09/920,993
	Filing Date	August 2, 2001
	Group Art Unit	1723
	Examiner Name	E. G. Therkorn



As a below named inventor, I hereby declare that:

My residence, mailing address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

METHOD AND SYSTEM FOR IDENTIFYING AND QUANTIFYING CHEMICAL COMPONENTS OF A MIXTURE

(Title of the Invention)

the specification of which

☐ is attached hereto

OR

☒ was filed on (MM/DD/YYYY) 08/02/01 as United States Application Serial Number or PCT International Application Number 09/920,993 and was amended on (MM/DD/YYYY) _____ *(if applicable).*

I hereby state that I have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose to the Patent Office all information known by me to be material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information known by me which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, or inventor's certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, or inventor's certificate(s), or of any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached? YES	NO
1015875	Netherlands	08/03/00	☐	☒	☐
1016034	Netherlands	08/28/00	☐	☒	☐
			☐	☐	☐
			☐	☐	☐

☐ Additional foreign application numbers are listed on a supplemental priority data sheet attached hereto.

I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below.

Application Serial Number(s)	Filing Date (MM/DD/YYYY)	
		☐ Additional provisional application serial numbers are listed on a supplemental priority data sheet attached hereto.

1 JUL 2004

DECLARATION – Utility or Design Patent Application

I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s), or 365(c), of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

U.S. Parent Application or PCT Parent Serial Number	Parent Filing Date (MM/DD/YYYY)	Parent Patent Number *(if applicable)*

☐ Additional U.S. or PCT international application numbers are listed on a supplemental priority data sheet attached hereto.

As a named inventor, I hereby appoint the following registered practitioners to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: ☐ Customer Number

OR

☒ Registered practitioner(s) name/registration number listed below

→ *Place Customer Number Bar Code Label Here*

Name	Registration Number	Name	Registration Number
Andrew F. Abramson	52,538	Duncan A. Greenhalgh	38,678
Steven M. Bauer	31,481	William R. Haulbrook	53,002
Mark L. Beloborodov	50,773	Ira V. Heffan	41,059
John V. Bianco	36,748	Douglas J. Kline	35,574
Robert S. Blasi	50,389	M. Brad Lawrence	47,210
Michael H. Brodowski	41,640	William A. Meunier	41,193
Jennifer A. Camacho	43,526	Thomas C. Meyers	36,989
Joseph A. Capraro, Jr.	36,471	Jennifer G. Moitoso	51,752
Fangli Chen	51,551	Ronda P. Moore	44,244
Christopher H. Chung	50,351	Jeremy P. Oczek	50,794
John J. Cotter	38,116	Jamie H. Rose	45,054
James C. De Vellis	52,814	Christopher W. Stamos	35,370
Robert V. Donahoe	46,667	Diana M. Steel	43,153
Brian A. Fairchild	48,645	Robert J. Tosti	35,393
James E. Fajkowski	54,089	Thomas A. Turano	35,722
Jason P. Fiorillo	52,892	Natasha C. Us	44,381
John V. Forcier	42,545	Christine C. Vito	39,061
Steven J. Frank	33,497	Daniel A. Wilson	45,508
Kia L. Freeman	47,577	Gerald E. Worth	45,238
Brian M. Gaff	44,691		
Edward A. Gordon	54,130		

☐ Additional registered practitioners named on supplemental Registered Practitioner Information sheet attached hereto.

Direct all correspondence to:

Patent Administrator
Testa, Hurwitz & Thibeault, LLP
High Street Tower
125 High Street
Boston, MA 02110
Tel. No.: (617) 248-7000
Fax No.: (617) 248-7100

1 JUL 2004

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name of Sole or First Inventor:	☐ A petition has been filed for this unsigned inventor						
Given Name (first and middle [if any])			Family Name or Surname				
Jan			**van der Greef**				
Inventor's Signature				Date 20.11.03			
Residence	City **Driebergen-Rijsenburg**	State		Country **Netherlands**		Citizenship **Dutch**	
Mailing Address	**De Beaufortlaan 8**						
Mailing Address (ln. 2)	City **Driebergen-Rijsenburg**	State		ZIP **3971 BM**		Country **Netherlands**	

☐ Additional inventors are being named on the ____ supplemental Additional Inventor(s) sheet(s) attached hereto.

Name of Additional Joint Inventor, if any:	☐ A petition has been filed for this unsigned inventor						
Given Name (first and middle [if any])			Family Name or Surname				
Jacibus Thomas Wilhelmus Elisabeth			**Vogels**				
Inventor's Signature				Date 1-12-2003			
Residence	City **Utrecht**	State		Country **Netherlands**		Citizenship **Dutch**	
Mailing Address	**Opsterland 134**						
Mailing Address (ln. 2)	City **Utrecht**	State		ZIP **3524 CJ**		Country **Netherlands**	

Name of Additional Joint Inventor, if any:	☐ A petition has been filed for this unsigned inventor						
Given Name (first and middle [if any])			Family Name or Surname				
Florian			**Wulfert**				
Inventor's Signature				Date 28.11.2003			
Residence	City **Driebergen-Rijsenburg**	State		Country **Netherlands**		Citizenship **Dutch**	
Mailing Address	**De Vos 18**						
Mailing Address (ln.2)	City **Driebergen-Rijsenburg**	State		ZIP **3972 VE**		Country **Netherlands**	

2604748

1 JUL 2004

Supplemental Sheet of Declaration and Power of Attorney for Utility or Design Patent Application
Serial No. 09/920,993
Atty. Docket No. BYG-002

DECLARATION AND POWER OF ATTORNEY FOR UTILITY OR DESIGN PATENT APPLICATION	**ADDITIONAL INVENTOR(S)** **Supplemental Sheet** Page 4 of 4

Name of Additional Joint Inventor, if any:					☐ A petition has been filed for this unsigned inventor			
Given Name (first and middle [if any])					Family Name or Surname			
Albert					**Tas**			
Inventor's Signature					Date	3-12-2003		
Residence	City	**Lienden**	State		Country	**Netherlands**	Citizenship	**Dutch**
Mailing Address	**Gelderse Singel 26**							
Mailing Address (ln. 2)	City	**Lienden**	State		ZIP	**4033 KE**	Country	**Netherlands**

Name of Additional Joint Inventor, if any:					☐ A petition has been filed for this unsigned inventor			
Given Name (first and middle [if any])					Family Name or Surname			
Inventor's Signature					Date			
Residence	City		State		Country		Citizenship	
Mailing Address								
Mailing Address (ln. 2)	City		State		ZIP		Country	

2604766

PTO/SB/21 (09-04)
JUN 25 2004
PATENT & TRADEMARK OFFICE

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CLAIMS

What is claimed is:

1. A method of data processing and evaluation comprising the steps of:

(a) correcting the data points of a chromatogram for baseline to provide a corrected-chromatogram;

(b) smoothing the data points of the chromatogram to provide a smoothed-corrected-chromatogram; and

(c) determining an entropy value for the smoothed-corrected-chromatogram based on the product of a data point value and a logarithm of the data point value for a plurality of data points of the smoothed-corrected-chromatogram.

2. The method of claim 1, wherein the entropy value of a smoothed-corrected-chromatogram is defined substantially by

$$H = \sum_{i=1}^{n} p_i \ln(p_i),$$

where H is the entropy value, and p_i is the intensity value of the i^{th} data point of the smoothed-corrected-chromatogram.

3. The method of claim 2, further comprising the steps of:

repeating steps (a) to (c) for a plurality of chromatograms of a data set; and

determining a quality factor for a smoothed-corrected-chromatogram based on the entropy values of the plurality of chromatograms of the data set, the quality factor defined substantially by

$$IQ = 1 - (H/H_{max}),$$

where IQ is the quality factor, H is the entropy value of the smoothed-corrected-chromatogram, and H_{max} is the maximum entropy value of the plurality of chromatograms of the data set.

4. The method of claim 3 further comprising the step of generating a reconstructed total ion current chromatogram from a plurality of smoothed-corrected-